



ELECTRONIC TUBE REFERENCE

EH2

Hexode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

HEXODE

Variable-mu heptode documented in the source table; despite its current hexode section assignment, available application detail is insufficient for a narrower functional classification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Hexode	
PLATE RESISTANCE	1000000 Ω
TRANSCONDUCTANCE	0.0014 S
MAXIMUM PLATE VOLTAGE	550 V
MAXIMUM PLATE DISSIPATION	1.56 W
<i>Published target-row operating and characteristic values reviewed.</i>	

EH2 is listed in the supplied valve table as a variable-mu heptode. Published operating and characteristic values were transcribed from its target row.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 1 · Hexode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	Published European table row
Screen voltage	100 V	Published European table row
Plate current	4.2 mA	Published European table row
Control-grid bias	3 V	Published European table row

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	1000000 ohm	Published European table row
Transconductance	1400 μ S	Published European table row
Heater/filament voltage	6.3 V	Published European table row
Heater/filament current	200 mA	Published European table row



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1999 PHILIPS E-Z

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
bei	100 V	—
$V_e = 0, S$	3 mA/V	—
W4	100 V	—
1250 Vaa250V 5	-3 V	—
spannung von	250 V	—
einer negativen Vorspannung des Gitters 1 von —	3 V	—
125041 heit beträgt etwa	1.8 mA/V	—
tigte Oszillatorspannung etwa	14 V	—
von [1]	250 V	—
von [2]	80 V	—
von —	2 V	—
Al v 250	250 V	—
_Vgaagu [1]	80 V	—
_Vgaagu [2]	100 V	—
%20 =TS N Vo= tps [1]	0 V	—
%20 =TS N Vo= tps [2]	80 V	—
Heizspannung	6.3 V	—
V()sl	14 V	—
I, [1]	1.85 mA	—
I, [2]	1.8 mA	—
Schirmgitterstrom [1]	3.8 mA	—
Schirmgitterstrom [2]	3.5 mA	—
Mischsteilheit [1]	400 pA/V	—
Mischsteilheit [2]	<10 pA/V	—
Mischsteilheit [3]	400 pA/V	—
$V_o = V_i$ [1]	-3 V	—
$V_o = V_i$ [2]	25 V	—
$V_o = V_i$ [3]	2 V	—
$V_o = V_i$ [4]	20 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I, [1]	4.2 mA	—
I, [2]	4 mA	—
Igo + Iy [1]	2.8 mA	—
Igo + Iy [2]	2.5 mA	—
Steilheit [1]	1400 pA/V	—
Steilheit [2]	1400 pA/V	—
wendet werden. Die Regelung der	42 mA	—
es, bis zu sehr kurzen Wellen	0.5 uF	—
M UN→ Ave +	250 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anodenspannung [1]	250 V	—
Anodenspannung [2]	250 V	—
Vg2, [1]	100 V	—
Vg2, [2]	80 V	—
Va [1]	250 V	—
Va [2]	250 V	—
"n = Vg [1]	100 V	—
"n = Vg [2]	80 V	—
Vao = max [1]	550 V	—
Vao = max [2]	0.3 pA	—
Vao = max [3]	1.3 V	—
Va = max [1]	300 V	—
Va = max [2]	1.3 V	—
Wa = max	1.56 W	—
Ve2o=Vgto = max [1]	400 V	—
Ve2o=Vgto = max [2]	10 mA	—
Vi2 = Vgg = max	125 V	—
Wye = Wyqy= max	0.5 W	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
eine negative Gittervorspannung von -2 Volt bei einer Spannung von	80 V	—